

State of California
Regional Water Quality Control Board
San Diego Region

EXECUTIVE OFFICER SUMMARY REPORT
February 5, 2003

ITEM: 10

SUBJECT: Waste Discharge Requirements and Master Reclamation Permit: Olivenhain Municipal Water District, 4-S Ranch Wastewater Treatment Plant, San Diego County (tentative Order No. R9-2003-0007) (*Bryan Ott*)

PURPOSE: To adopt a master reclamation permit with waste discharge requirements for the production, use, and purveyance of tertiary recycled water from the expanded and upgraded 4-S Ranch Wastewater Treatment Plant. This Order updates and replaces Order No. 85-04.

PUBLIC NOTICE: The February 5, 2003 Regional Board meeting agenda notice that was sent on January 17, 2003 served as the required 10-day official public notification for this action. Tentative drafts of the Order, including the draft monitoring and reporting program (M&RP), were mailed on January 17, 2003 to the discharger and all known interested parties and agencies for review and comment. Copies of the tentative Order and M&RP have been made available for public review at the San Diego Regional Water Quality Control Board office.

DISCUSSION: The Olivenhain Municipal Water District (discharger) owns and operates the 4-S Ranch Wastewater Treatment Plant, and manages the distribution and irrigation uses of the recycled water produced by the treatment plant. The 4-S Ranch Wastewater Treatment Plant has been expanded to treat and disinfect wastewater flows up to a maximum of 2.0 million gallons per day (MGD) to tertiary levels [tertiary treated water is defined by the California Code of Regulations, Title 22, Division 4, Chapter 3 as a filtered and disinfected wastewater where median concentration of total coliform bacteria measured in the disinfected effluent does not exceed a most probable number (MPN) of 2.2 per 100 milliliters]. The average daily effluent flowrate from the 4-S Ranch Wastewater Treatment plant, however, will be limited to 1.6 MGD until the seasonal wet weather storage pond is expanded to the required 84-day

storage capacity for an effluent flowrate of 2.0 MGD. Recycled water is to be used for irrigation purposes in the Solana Beach Hydrologic Area (HA 905.10).

The Report of Waste Discharge states that disinfection of the recycled water will be accomplished by the use of a new ultraviolet (UV) system utilizing UV lamps. On December 20, 2002, the discharger submitted a revised Report of Waste Discharge indicating that a temporary chlorine contact chamber constructed of baffled baker tanks would be used for disinfection to meet Title 22 requirements for the production, use, and distribution of tertiary treated water while the UV commissioning/tracer study is being conducted. The temporary chlorine contact facility (TCCF) will be capable of treating up to 1.0 MGD. The State Department of Health Services approved the use of the TCCF for disinfection on December 31, 2002. Operating specifications and monitoring and reporting requirements for the new UV disinfection system will be incorporated into Order No. R9-2003-0007 by amendment at a later date. The UV disinfection system is not to be operated until authorization has been granted by the Regional Board. At that time the TCCF will be dismantled and removed from the 4-S Ranch Wastewater Treatment Plant, and the UV system will be used to disinfect the wastewater to tertiary levels.

The effluent limitations contained in tentative Order No. R9-2003-0007 for the discharge of treated wastewater to the land are based principally on the 1994 Water Quality Control Plan for the San Diego Basin and the regulations governing recycled water use as contained in Title 22 of the California Code of Regulations.

LEGAL CONCERNS:

None.

SUPPORTING DOCS:

1. Tentative Order No. R9-2003-0007 including Monitoring and Reporting Program No. 2003-0007
2. Transmittal letter, dated January 17, 2003
3. Letter from Department of Health Services, dated December 31, 2002
4. Site Maps

SIGNIFICANT
CHANGES:

Tentative Order No. R9-2003-0007 would increase the 30-day average effluent discharge limit from 0.6 MGD to 1.6 MGD, allow for the production of 1.0 MGD of tertiary recycled water via temporary chlorine disinfection, allow for the use and distribution of tertiary recycled water by the OMWD in the

Solana Beach Hydrologic Area, and acknowledge plant upgrades and expansion.

COMPLIANCE
RECORD:

The 4-S Ranch Wastewater Treatment Plant has been in compliance with its current Order and addenda thereto with the exception of occasional exceedences of prescribed coliform effluent limits and rare TDS effluent limit violations.

RECOMMENDATION:

The adoption of tentative Order No. R9-2003-0007 is recommended.